

PROJECT DESCRIPTION

I. General

This project involves the installation of a new traffic control signal with intersection street lighting and traffic signal interconnect at the intersection of MD 193 A (Southway Road) at the MD 295 (Baltimore / Washington Parkway) southbound ramps in Prince George's County, Maryland. MD 193 A is assumed to run in a east/west direction.

II. Intersection Operation

This intersection shall operate in a NEMA four (4)phase fully actuated mode with the westbound MD 193 A left turns operating in an exclusive/permitted phase. Eastbound/westbound MD 193 A shall operate concurrently. Northbound MD 295 ramps shall operate in an exclusive phase. An emergency vehicle pre-empt phase shall be provided for Westbound MD 193 A approach.

An eight phase Fully-actuated controller with four (4) four channel rack mounted loop detector amplifiers house in a base mounted cabinet shall be installed at this intersection.

III. Special Notes

1.) Maintenance of traffic will be handled by the contractor utilizing the following standard plates for traffic control:

2.) The following are SHA District 3 Contact persons:

Mr. Richard L. Daff, Sr. Chief, Traffic Operations Division (410) 787-7630

Mr. Charles Watkins District Engineer (301) 513-7311

Mr. Majib Shakib Asst. District Engineer - Traffic (301) 513-7358

Mr. Randy Brown Asst. District Engineer - Maintenance (301) 513-7304

Mr. Sonny Lauer District Engineer- Utility (301) 513-7350

3.) The contractor shall be responsible for routing interconnect cables into the base of the controller cabinet and properly tag the cables. Maryland SHA forces shall be responsible for disconnecting and splicing interconnect cables.

EQUIPMENT LIST

A. Equipment to be supplied by the Administration.

ITEM NO.	QUANTITY	UNITS	SPECIFICATION SECTION	DESCRIPTION
9001	6	EA	814	12 in. 1 way 3 section (R,Y,G) signal head mast arm mount.
9003	1	EA	816	Eight-phase (fully actuated controller and cabinet with system package) - base mount
9004	4	EA	xxx	Four-channel loop detector amplifier (delayed output)
9011	52-5	SF	813	Sheet aluminum signs consisting of:
	1	EA	xxx	D3-2 (var x 16 in.)
	3	EA	xxx	W3-3 (36"X36") Signal Ahead Warning Sign ground mount
	3	EA	xxx	R4-7 (24"X30") Ground mount

EQUIPMENT LIST (CONT.)

B. Equipment to be Furnish and/or Installed by the Contractor

ITEM NO.	QUANTITY	UNITS	SPECIFICATION SECTION	DESCRIPTION
1001	1	EA	104	Maintenance of Traffic per assignment
2001	4	CY	205	Test pit excavation
5010	80	LF	555	24 in. white thermoplastic pavement marking tape
5011	4	EA	555	Thermoplastic pavement marking letter
5012	2	EA	555	Thermoplastic pavement marking arrow
5014	8	EA	555	Remove existing pavement marking letter or arrow
8001	5.9	CY	801	Furnish and install concrete for signal foundation
8006	2	EA	SP/818	Cut, clean, galvanize and cap traffic signal structure
8011	6	EA	814	Install signal head -any type
8012	1	EA	SP	Furnish and install 3M opticom #521 detector eye
8016	3	EA	815	Furnish and install microloop probe set with 500 ft. lead-in
8017	2	EA	815	Furnish and install microloop probe set with 1000 ft. lead-in
8020	1	EA	816	Install controller and cabinet- base mount
8021	400	LF	815	Furnish and install saw cut for signal (loop detector)
8022	100	LF	805	Furnish and install 1 in. electrical conduit - galvanized sleeve
8023	20	LF	805	Furnish and install 1 in. liquid tight flexible non-metallic conduit for detector sleeve
8024	1400	LF	805	Furnish and install 2 in. schedule 80 rigid PVC conduit- trenchd
8026	120	LF	805	Furnish and install 2 in. schedule 80 rigid PVC conduit- bored
8029	50	LF	805	Furnish and install 3 in. schedule 80 rigid PVC conduit- bored
8030	40	LF	805	Furnish and install 4 in. schedule 80 rigid PVC conduit- trenchd
8032	160	LF	805	Furnish and install 4 in. schedule 80 rigid PVC conduit- bored


EQUIPMENT LIST (CONT.)

B. Equipment to be Furnish and/or Installed by the Contractor

ITEM NO.	QUANTITY	UNITS	SPECIFICATION SECTION	DESCRIPTION
8033	14	EA	811	Furnish and install electrical handhole
8034	3	EA	804	Furnish and install ground rod- 3/4 in. diameter x 10 ft. length
8037	350	LF	810	Furnish and install 4-conductor opticom detector cable
8039	980	LF	810	Furnish and install 12-pair communication cable, jellyfilled (underground)
8040	1040	LF	810	Furnish and install loop wire encased in flexible tubing (No. 14 AWG)
8041	1300	LF	810	Furnish and install electrical cable - 2 conductor (aluminum shielded)
8044	6	LF	810	Furnish and install electrical cable - 5 conductor (No. 14 AWG)
8045	770	LF	810	Furnish and install electrical cable - 7 conductor (No. 14 AWG)
8047	1	EA	SP	Furnish and install mast arm pole and twin 50 ft./50 ft. mast arms
8049	330	LF	810	Furnish and install No. 6 AWG stranded bare copper ground wire
8050	400	LF	810	Furnish and install electrical cable 1 - conductor No. 4 AWG - THHN/THWN
8051	80	LF	812	Furnish and install wood sign supports 4 in. x 4 in.
8053	42	SF	812/813	Install ground mounted sign
8054	10.5	SF	812/813	Install overhead sign
8070	1	EA	807	Furnish and install control and distribution equip(120/240V, 1 phase 3 wire syst)
8081	1	EA	SP	Furnish and install mast arm pole and 38 ft. mast arm
Neg.	LS	LS	712	Selective tree trimming
Neg.	1	EA	816	Opticom detector rack
Neg.	1	EA	816	Opticom module



REVISIONS	APPROVALS
	ASST. DIVISION CHIEF, TEDD
	ASST. DISTRICT ENGINEER, TRAFFIC
	CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION
	DIRECTOR, OFFICE OF TRAFFIC & SAFETY



MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
MD 193A (SOUTHWAY) AT SOUTHBOUND BALTIMORE / WASHINGTON PARKWAY RAMP
GENERAL INFORMATION SHEET 2 OF 2

LOG MILE: 160193A0.15

DRAWN BY: AC CICHINI
CHECK BY: D PETERS
SCALE: NONE

F.A.P. NO. AC-STPG-000S(588)E
S.H.A. NO. AW277A5H/ B5H
COUNTY PRINCE GEORGE'S

TRAFFIC SIGNAL NO.: GI-3775
SHEET NO. 3 OF 3

DATE 6 /15/98